

**OPTICAL AMPLIFIER AND OPTICAL AMPLIFYING METHOD**

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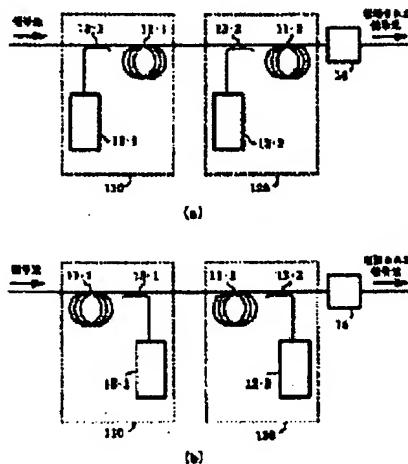
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**Abstract of JP7234423**

**PURPOSE:** To provide an optical amplifier which is flat in amplification band and is low in cost and an optical amplifying method.

**CONSTITUTION:** This optical amplifier has active media 11-1 and 11-2 consisting of optical fibers formed by incorporating a rare earth element or transition metal having a laser transition level to core parts or clad parts, exciting light sources 12-1 and 12-2 for generating exciting light to excite these active media and amplifying sections 110 and 120 having multiplexing sections 13-1 and 13-2 and is provided with an optical isolator 14. The glass hosts of at least the two optical fibers incorporated with the rare earth element or transition metal among the optical fibers incorporated with the rare earth element or transition metal which are the active media vary from each other.



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